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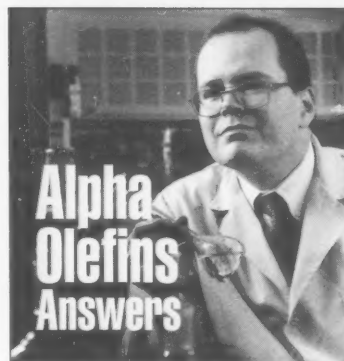
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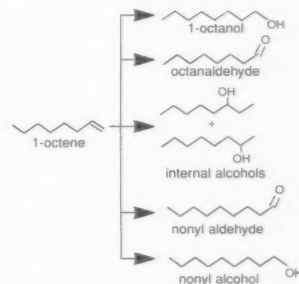
with Eduardo J. Baralt, Ph.D.

Q: Are alpha olefins used to make perfume and fragrance derivatives? What type of perfume components are made from alpha olefins...and what exactly are alpha olefins?

A: Normal alpha olefins are linear terminal alkenes or olefins. Chevron produces single carbon fractions including 1-butene, 1-hexene, 1-octene, 1-decene and heavier even carbon number olefins up to 1-octadecene (1-C18H36). Higher mol. weight fractions are waxy and sold as mixtures such as C20-24, C24-28 and C30+, an alpha olefin wax with an average carbon number of C34.

The most common alpha olefins used in the perfume and fragrance industries are 1-hexene, 1-octene and 1-decene. 1-dodecene, 1-tetradecene, 1-hexadecene and 1-octadecene can also be used.

Many even and odd carbon number aldehydes and alcohols can be made using our alpha olefins. For example, from 1-octene you can make 1-octanol, octanaldehyde, internal alcohols, nonyl aldehyde, internal alcohols, nonyl alcohol and nonyl aldehyde.



If you are interested in learning more about converting alpha olefins into fragrances, please contact us.



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